CLAIMS

What is claimed is:

1) A system for providing wireless voice activated data retrieval comprising:

a server;

a database;

an input/output device, operably connected to the server, comprising a user interface having a recording apparatus, capable of recording the voice of a user to a data stream, and a communication apparatus, capable of enabling the exchange of information with the server;

the server being capable of receiving a transmitted data stream from the input/output device, processing the transmitted data stream, exchanging data information with a recognition search engine, and transmitting a second data stream of matching recognized information to the database engine for a relational examination, then for user verification; and,

a programming interface having a speech recognition search engine capable of generating the modified second data stream of recognized information such that the speech recognition engine converts the first data stream to an intermediate data element and then generates the second data stream by searching and comparing information in the intermediate data element to information in a selected searchable data element and then retrieving and storing the matching information.

2) The system in accordance with claim 1, wherein the input/output device is a wireless hand-held device.

3) The system in accordance with claim 1, wherein the server is a speech-application-programming-interface compliant server.

4) The system in accordance with claim 1, wherein the recognition search engine is an automatic speech recognition engine.

5) The system in accordance with claim 1, wherein the server is connected to a wireless network.

6. The system in accordance with claim 1, wherein the server has business logic enabling the user to write prescriptions electronically.

7) The system in accordance with claim 1, wherein the selected searchable data information includes stored prescription related information, thereby enabling the automated recognition engine to compare the textual data stream to the prescription related information and generate a matching prescription data stream.

8) The system in accordance with claim 1, further comprising a database having related information, thereby enabling the server to compare information in the second data file of matching information to information stored in the database to verify the accuracy of the matching information.

9) The system in accordance with claim 1, wherein the server application further comprises a compression mechanism for compressing the first data stream, thereby enabling fast transmission of the data stream to the connected client-server.

10) The system in accordance with claim 1, wherein the server application further comprises an encryption mechanism for encrypting the first data stream, thereby enabling to provide for private and secure stream transmission to the connected client-server.

11) The system in accordance with claim 1, wherein the server application further comprises a decompression mechanism for decompressing received data stream.

12) The system in accordance with claim 1, wherein the server application further comprises a decryption mechanism using for decrypting received data stream.

13) The system in accordance with claim 1, further comprising a database having related information, thereby enabling the server to compare information in the second data stream of matching information to information stored in the database to verify the accuracy of the matching information.

14) The system in accordance with claim 1, wherein the speech application programming interface further comprises an application for learning speech dialects and different pronunciations of audibly transmitted information.

15) A method of wireless voice activated data retrieval, comprising the steps of:

providing a data input/output device with a user interface, the user interface including a voice recording apparatus, for detecting and recording the user's voice and a communication apparatus, for enabling communication with a server;

providing a server capable of exchanging information with the voice recognition

providing data containing select information;

providing a programming interface having a recognition engine capable of converting the first data stream into textual data and matching the textual data to the data element containing the selected list of information;

wherein, when a user speaks into the input/output device the user interface detects the voice and a first data stream is created and then communicated to the server, the programming interface converts the first data stream into textual data and compares the textual data to the stored information in the selected information database, matching data from the two sources and creating a second data stream for storing matched data, said matched data being communicated to said input/output device for data retrieval.

16) The method in accordance with claim 15, wherein the user interface is a graphical user interface having a viewable display for displaying the received matching data.

17) The method in accordance with claim 15, wherein the server is a speech-application-programming-interface compliant-server.

18) The method in accordance with claim 15 further comprising, providing a
database containing information such that the matching data element can be compared to the information to verify the accuracy of the matching data.

19) The method in accordance with claim 15 further comprising, providing a database containing prescription information such that the matching data stream can be compared to the prescription information to verify the accuracy of the matching data.

20) The method in accordance with claim 15, wherein the select information comprises a list of prescription related terms such that the matching data contains prescription related data.

21) A voice recognition device for providing wireless communication with a connected client-server comprising:

a speech-specific user interface for detecting the user's voice transmission, and displaying received data from a remotely connected server,

a recording apparatus for converting the voice transmission into a recorded data element,

a communication apparatus for providing bi-directional wireless communication of the data stream with a server.

22) The voice recognition device in accordance with claim 21, wherein the user interface is a graphical user interface having a graphical interfacing application for enabling viewable display of textual returned data.

23) The voice recognition tool in accordance with claim 21, wherein the communication apparatus further comprises a compression mechanism for compressing the textual data stream such that the data stream can be quickly transmitted.

24) The voice recognition tool in accordance with claim 21, wherein the server application further comprises an encryption mechanism for encrypting the textual audible stream such that the stream can be securely transmitted.

25) The voice recognition tool in accordance with claim 21, wherein the server application further comprises a decompression mechanism for decompressing received resultant data stream

26) The voice recognition tool in accordance with claim 21, wherein the server application further comprises a decryption mechanism for decrypting received resultant data.

27) The voice recognition tool in accordance with claim 21, wherein the voice recognition device is a wireless hand-held device.

28) The voice recognition tool in accordance with claim 21, further comprising an indicating application capable of indicating the beginning and end of a voice transmission recording.